UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE : February 8, 2012

SUBJECT: Region III Data QA Review

FROM: Colleen Walling
Region III ESAT RPO (3EA20)

TO: Rich Fetzer
Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (Case #: 180-2644-1) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0037 TDF: #02024A

cc: Gene Nance (Techlaw)
Suddha Graves (Techlaw)

Lockheed Martin IS&GS – Civil
Energy & Environment
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

LOCKHEED MARTIN
We never forget who we're working for™

Date: February 07, 2012

Subject: Organic Data Validation (M3 Level)
Project: 180-2644-1
Site: Dimock

From: Ex. 4 - CBI
Organic Data Reviewer

Ex. 4 - CBI
Senior Oversight Chemist

To: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Third party Project 180-2644-1, consisted of two (2) aqueous samples analyzed for the following parameters by the methods listed below. All analyses were performed by TestAmerica – Pittsburgh (TALPA) through the Delivery of Analytical Services (DAS) program.

Parameter	Method
Volatile Organic Compounds	EPA 8260B
Semivolatile Organic Compounds	EPA 8270C
Glycols	EPA 8015C
Dissolved gases	RSK-175
Gas Range Organics	EPA 8015B
Ethylene dibromide	EPA 8011
Diesel Range Organics	EPA 8015B

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). Areas of concern with respect to data usability are listed below.

MINOR PROBLEM

- The laboratory reported that samples for dissolved gases analyses had a pH greater than two (>2) when received. Analysis of these samples was performed six (6) days after collection. Samples must be preserved to pH of less than two (<2) for dissolved gases. The positive result reported for methane in TC-1 was qualified "L" on the DSF. Quantitation limits for remaining compounds in these samples were qualified "UL" on the DSF.

NOTES

- Several compounds failed precision criteria [Percent Difference (%D)] in continuing calibrations associated with volatile, semivolatile and dissolved gases fractions. No positive results were reported for these compounds. The quantitation limit for semivolatile compound benzidine exceeded the 50% criteria; however, this compound was not listed on sample Form Is and no action was taken by the reviewer based on this finding.

- Target compound triethylene glycol was found in the analysis of method blank 480-27399/1-A at a concentration of 3.14 J mg/L. Sample TC-1 reported a concentration of this blank contaminant less than five times (<5X) the blank concentration and has been qualified "B" on the DSF.

- Sample volumes other than one (1) liter were used in the semivolatile and diesel range organic analyses for the samples associated with this case. The dilution factors reported on the DSFs reflect actual sample volumes analyzed.

- Results and Relative Percent Differences (RPDs) for Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analyses were within control limits for all parameters.

- Compounds detected below Reporting Limits (RLs) are qualified "J" unless superseded by "B" on the DSFs.

ATTACHMENTS

Appendix A – Glossary of Data Qualifier Codes
Appendix B – Data Summary Form(s)
Appendix C – Chain of Custody Records
Appendix D – Laboratory Case Narrative

DCN: 180-2644-1_Organic

Appendix A
Glossary of Data Qualifier Codes

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B
Data Summary Forms

DATA SUMMARY FORM: Volatiles

Project #: 180-2644-1
Site : DIMOCK
Lab. : TALPA

Number of Soil Samples : 0
Number of Water Samples : 2

Sample Number / Location:		TC-1		AW-2							
Matrix :		Water		Water							
Units :		ug/L		ug/L							
Date Sampled :		08/04/2011		08/04/2011							
Time Sampled :		09:30		13:20							
pH :		<2.0		<2.0							
Dilution Factor :		1.0		1.0							
Target Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	5.0										
Benzene	1.0										
Toluene	1.0										
Bromodichloromethane	1.0										
Ethylbenzene	1.0										
Bromoform	1.0										
Xylenes, Total	3.0										
Bromomethane	1.0										
Isopropylbenzne	1.0										
2-Butanone	5.0										
Methyl tert-butyl ether	1.0										
1,2,4-Trimetyhylbenzene	1.0										
Carbon disulfide	1.0										
1,3,5-Trimethylbenzene	1.0										
Carbon tetrachloride	1.0										
Chlorobenzne	1.0										
Chloroethane	1.0										
Chloroform	1.0										
Dibromochloromethane	1.0										
1,2-dibromoethane (EDB)	1.0										
Naphthalene	1.0										
1,2-Dichloroethane	1.0										
1,2-Dichloroethene, Total	1.0										
1,1-Dichloroethane	1.0										
Bromochloromethane	1.0										
1,2-Dichloroethane	1.0										
1,1-Dichloroethene	1.0										
trans-1,2-Dichloroethene	1.0										
1,2-Dichloropropane	1.0										
cis-1,2-Dichloropropene	1.0										
trans-1,3-Dichloropropene	1.0										
Ethylbenzene	1.0										
2-Hexanone	5.0										

Project #: 180-2644-1
Site : DIMOCK
Lab. : TALPA

Sample Number / Location:		TC-1		AW-2							
Matrix :		Water		Water							
Units :		ug/L		ug/L							
Date Sampled :		08/04/2011		08/04/2011							
Time Sampled :		09:30		13:20							
pH :		<2.0		<2.0							
Dilution Factor :		1.0		1.0							
Target Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Methylene Chloride	1.0										
4-Methyl-2-pentanone (MIBK)	5.0										
Styrene	1.0										
1,1,2,2-Tetrachloroethane	1.0										
Tetrachloroethene	1.0										
Toluene	1.0										
1,1,1-Trichloroethane	1.0										
1,1,2-Trichloroethane	1.0										
Trichloroethene	1.0										
Vinyl Chloride	1.0										
N-propylbenzne	1.0										
cis-1,2-dichloroethene	1.0										
1,2-Dichlorobenzene	1.0										
sec-Butylbenzene	1.0										
1,3-Dichlorobenzene	1.0										
p-Isopropyltoluene	1.0										
1,4-Dichlorobenzene	1.0										
1,2,4-Trichlorobenzene	1.0										
Chloromethane	1.0										
n-Butylbenzene	1.0										
m-Xylene & p-Xylene	2.0										
o-Xylene	1.0										

RL = Reporting Limit
To calculate sample quantitation limits: (RL * Dilution Factor)

SEE NARRATIVE FOR CODE DEFINITIONS
Revised 09/99

Project #: 180-2644-1
Site : DIMOCK
Lab. : TALPA

Number of Soil Samples : 0
Number of Water Samples : 2

Sample Number / Location:		TC-1		AW-2							
Matrix :		Water		Water							
Units :		ug/L		ug/L							
Date Sampled :		08/04/2011		08/04/2011							
Time Sampled :		09:30		13:20							
Dilution Factor :		1.18		1.01							
Semivolatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	0.20										
Anthracene	0.20										
Acenaphthylene	0.20										
Benzo(a)anthracene	0.20										
Benzo(b)fluoranthene	0.20										
Benzo(a)anthracene	0.20										
Benzo(g,h,i)perylene	0.20										
Benzo(a)pyrene	0.20										
Benzo(k)fluoranthene	0.20										
Chrysene	0.20										
Fluorene	0.20										
Indeo(1,2,3-cd)pyrene	0.20										
Bis(2-chloroethoxy)methane	1.00										
Phenanthrene	0.20										
Bis(2-chloroethyl)ether	0.20										
Pyrene	0.20										
Bis(2-ethylhexyl)phthalate	2.00										
Butylbenzylphthalate	1.00	0.17	J								
Carbazole	0.20										
Chrysene	0.20										
2-Chloronaphthalene	0.20										
2-Chlorophenol	1.00										
2,4-Dichlorophenol	0.20										
2,4-Dimethylphenol	1.00										
2,4-Dinitrophenol	5.00										
2,4-Dinitrotoluene	1.00										
2,6-Dinitrotoluene	1.00										
1,2-Dichlorobenzene	1.00										
2-Methylnaphthalene	0.20										
1,3-Dichlorobenzene	1.00										
2-Methylphenol	1.00										
1,4-Dichlorobenzene	1.00										
2-Nitroaniline	5.00										

Project Number: 180-3644-1 SDG : 2H-1
Site : DIMOCK
Lab. : TALP

Sample Number / Location:		TC-1		AW-2							
Matrix :		Water		Water							
Units :		ug/L		ug/L							
Date Sampled :		08/04/2011		08/04/2011							
Time Sampled :		09:30		13:20							
Dilution Factor :		1.18		1.01							
Semivolatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Nitrophenol	1.00										
bis(2-chloroisopropyl)ether	0.20										
2,4,5-Trichlorophenol	1.00										
2,4,6-Trichlorophenol	1.00										
4-Nitroaniline	5.00										
4-Nitrophenol	5.00										
4-Chlorophenyl phenyl ether	1.00										
Methylphenol, 3 & 4	1.00										
4,6-Dinitro-2-methylphenol	5.00										
4-chloroaniline	1.00										
4-Chloro-3-methylphenol	1.00										
4-Bromophenyl phenyl ether	1.00										
Dibenz(a,h)anthracene	0.20										
Dibenzofuran	1.00										
Di-n-butylphthalate	1.00	0.87	J	0.46	J						
Diethylphthalate	1.00			0.20	J						
Dimethyphthalate	1.00										
Di-n-octylphthalate	1.00										
3,3'-Dichlorobenzidine	1.00										
3-Nitroaniline	5.00										
Fluoranthene	0.20										
1,2,4-Trichlorobenzene	1.00										
Hexachlorobenzene	0.20										
Hexachlorobutadiene	0.20										
Hexachlorocyclopentadiene	1.00										
Hexachloroethane	1.00										
Isophorone	1.00										
Naphthalene	0.20										
Nitrobenzene	2.00										
N-Nitrosodiphenylamine	1.00										
N-Nitroso-n-propylamine	0.20										
Phenol	0.20										
Phenanthrene	0.20										
Pentachlorophenol	1.00										
Benzyl alcohol	1.00										
N-Nitrosodimethylamine	1.00										
Benzoic acid	5.00										
1,2-Diphenylhydrazine (as Azobenzene)	1.00										
1-Methylnaphthalene	0.20										

RL = Reporting Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (RL * Dilution Factor) Revised 09/99

Project #: 180-2644-1
Site : DIMOCK
Lab. : TALPA

Number of Soil Samples : 0
Number of Water Samples : 2

Sample Number :		TC-1		AW-2							
Matrix :		Water		Water							
Units :		mg/L		mg/L							
Date Sampled :		08/04/2011		08/04/2011							
Time Sampled :		09:30		13:20							
Dilution Factor :		1.0		1.0							
Glycols	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										
Propylene glycol	10										
Triethylene glycol	10	2.7	B								
2,2'-Oxybisethanol	10	1.8	J	0.58	J						
2-Methoxyethanol	10										
2-Ethoxyethanol	10										

RL = Reporting Limit
SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (RL * Dilution Factor)
Revised 09/99

Project #: 180-2644-1
Site : DIMOCK
Lab. : TALPA

Number of Soil Samples : 0
Number of Water Samples : 2

Sample Number :		TC-1		AW-2							
Matrix :		Water		Water							
Units :		ug/L		ug/L							
Date Sampled :		08/04/2011		08/04/2011							
Time Sampled :		09:30		13:20							
pH :		> 2		> 2							
Dilution Factor :		1.0		1.0							
Dissolved Gases	**RL**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
ETHANE	1.5		UL		UL						
ETHENE	1.5		UL		UL						
METHANE	1.0	18	L		UL						
PROPANE	3.0		UL		UL						

RL = Reporting Limit
SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)
Revised 09/99

DATA SUMMARY FORM: EDB

Project #: 180-2644-1
Site : DIMOCK
Lab. : TALPA

Number of Soil Samples : 0
Number of Water Samples : 2

Sample Number :		TC-1		AW-2							
Matrix :		Water		Water							
Units :		ug/L		ug/L							
Date Sampled :		08/04/2011		08/04/2011							
Time Sampled :		09:30		13:20							
Dilution Factor :		1.0		1.0							
Analyte	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene Dibromide (EDB)	0.020										

RL = Reporting Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor) Revised 09/99

DATA SUMMARY FORM: Gas Range Organics (GRO)

Project #: 180-2644-1
Site : DIMOCK
Lab. : TALPA

Number of Soil Samples : 0
Number of Water Samples : 2

Sample Number :		TC-1		AW-2							
Matrix :		Water		Water							
Units :		ug/L		ug/L							
Date Sampled :		08/04/2011		08/04/2011							
Time Sampled :		09:30		13:20							
pH :		<2.0		<2.0							
Dilution Factor :		1.0		1.0							
Analyte	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Gas Range Organic (GRO)	25			17	J						

RL = Reporting Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: Diesel Range Organics (DRO) Page _9___ of __9__

Project #: 180-2644-1
Site : DIMOCK
Lab. : TALPA

Number of Soil Samples : 0
Number of Water Samples : 2

Sample Number :		TC-1		AW-2							
Matrix :		Water		Water							
Units :		mg/L		mg/L							
Date Sampled :		08/04/2011		08/04/2011							
Time Sampled :		09:30		13:20							
Dilution Factor :		0.98		1.05							
Analyte	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Diesel Range Organic (DRO)	0.50										

RL = Reporting Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor) Revised 09/99

Appendix C
Chain of Custody Records

Chain of Custody Record

TestAmerica Laboratory location: Pittsburgh (water)

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: URS Corporation	Ex. 4 - CBI	Lab Contact: Carrie Gamber	COC No: 005408
Address: 501 Holiday Dr. Suite 300		Telephone: 412-963-7058	___ of ___ COCs
City/State/Zip: Pittsburgh, PA 15220			
Phone: 412-503-4700			
Project Name: K&L Gates Focused Site Assessment	Method of Shipment/Carrier: FedEx Next Day Air		
Project Number: 39938688.00001	Shipping/Tracking No:		
PO# 694872			

Ex. 4 - CBI

Analysis Turnaround Time (in BUS days)
TAT if different from below ______
☐ 3 weeks
☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite	VOCs	SVOCs	Metals (Total/Dissolved) (Lab Filtered)	Total PA Short List for Petroleum Products	HEM	Chloride, pH, Alkalinity, Acidity, TDS, TSS	Ammonia	Glycols	DRO/GRO	MBAS	Sample Specific Notes / Special Instructions:
TC-1	8/4/11	9:30		X													X	X	X	X	X	X	X	X	X	X	
AW-2	8/4/11	13:20		X													X	X	X	X	X	X	X	X	X	X	
				X																							
				X																							
				X																							
				X																							
				X																							
				X																							
				X																							
				X																							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For ______ Months

Special Instructions:

Ex. 4 - CBI

Relinquished by:	Company: URS	Date/Time: 8/4/11	Received by:	Company: TA PH	Date/Time: 8/5/11 1000
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TAL 0018-1 (04/10)

Appendix D
Laboratory Case Narrative

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

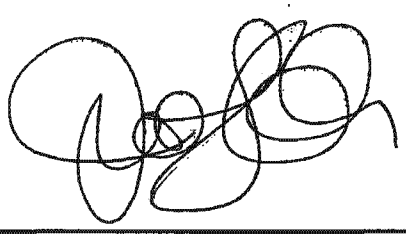
ANALYTICAL REPORT

Job Number: 180-2644-1

Job Description: Focused Site Assessment

For:
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Attention: Mr. James Pinta, Jr.



Approved for release.
Jill L Colussy
Project Mgmt. Assistant
9/13/2011 8:29 AM

Designee for
Carrie L Gamber
Project Manager II
carrie.gamber@testamericainc.com
09/13/2011

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager or designee who has signed this report.

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238
Tel (412) 963-7058 Fax (412) 963-2468 www.testamericainc.com

CASE NARRATIVE

Client: URS Corporation

Project: Focused Site Assessment

Report Number: 180-2644-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 08/05/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.0 and 0.7 C.

The laboratory received a broken 1L amber bottle for sample TC-1 (180-2644-1).

The laboratory only received six VOA vials for sample AW-2 (180-2644-2) instead of nine.

LOW LEVEL VOLATILE ORGANIC COMPOUNDS
Methylene Chloride and Toluene were detected in method blank MB 180-10937/3 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)
No difficulties were encountered during the semivolatiles analyses.

GAS RANGE ORGANICS
No difficulties were encountered during the GRO analyses.

GLYCOLS
Triethylene Glycol was detected in method blank MB 480-27399/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The continuing calibration verification (CCV) (CCV 480-27383/3) for Ethylene Glycol recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

DISSOLVED GASES
The following samples submitted for dissolved gases analysis were received with incorrect preservation (pH >2): AW-2 (180-2644-2) and TC-1 (180-2644-1).

1,2-DIBROMOETHANE AND 1,2-DIBROMO-3-CHLOROPROPANE BY MICROEXTRACTION AND GAS CHROMATOGRAPHY
No difficulties were encountered during the EDB and DBCP analyses.

DIESEL RANGE ORGANICS
No difficulties were encountered during the DRO analyses.

METALS
Antimony, Boron and Molybdenum were detected in method blank MB 180-10641/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Several analytes were detected in method blank MB 180-10417/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

GENERAL CHEMISTRY

The method blanks had compounds detected at a level that was above the method detection limit but below the reporting limit. The values should be considered an estimate, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

8/5/2011

Login Container Summary Report

180-2644

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
TC-1	180-2644-A-1	Plastic 1 liter - unpreserved			
TC-1	180-2644-B-1	Amber Glass 1 liter - Sulfuric Acid	2		
TC-1	180-2644-C-1	Amber Glass 1 liter - unpreserved			
TC-1	180-2644-D-1	Amber Glass 1 liter - unpreserved			
TC-1	180-2644-E-1	Amber Glass 1 liter - Hydrochloric	2		
TC-1	180-2644-F-1	Amber Glass 1 liter - Hydrochloric	2		
TC-1	180-2644-G-1	Plastic 500ml - with Nitric Acid	2		
TC-1	180-2644-H-1	Plastic 500ml - unpreserved			
TC-1	180-2644-I-1	Plastic 250ml - with Sulfuric Acid	2		
TC-1	180-2644-J-1	Voa Vial 40ml - with Sodium	p		
TC-1	180-2644-K-1	Voa Vial 40ml - with Sodium	p		
TC-1	180-2644-L-1	Voa Vial 40ml - unpreserved			
TC-1	180-2644-M-1	Voa Vial 40ml - unpreserved			
TC-1	180-2644-N-1	Voa Vial 40ml - unpreserved			
TC-1	180-2644-O-1	Voa Vial 40ml - Hydrochloric Acid	p		
TC-1	180-2644-P-1	Voa Vial 40ml - Hydrochloric Acid			
TC-1	180-2644-Q-1	Voa Vial 40ml - Hydrochloric Acid			
TC-1	180-2644-R-1	Voa Vial 40ml - Hydrochloric Acid			
TC-1	180-2644-S-1	Voa Vial 40ml - Hydrochloric Acid			
TC-1	180-2644-T-1	Voa Vial 40ml - Hydrochloric Acid			
TC-1	180-2644-U-1	Voa Vial 40ml - Hydrochloric Acid			
TC-1	180-2644-V-1	Voa Vial 40ml - Hydrochloric Acid			
TC-1	180-2644-W-1	Voa Vial 40ml - Hydrochloric Acid			
AW-2	180-2644-A-2	Plastic 1 liter - unpreserved			
AW-2	180-2644-B-2	Amber Glass 1 liter - Sulfuric Acid	2		
AW-2	180-2644-C-2	Amber Glass 1 liter - Sulfuric Acid	2		
AW-2	180-2644-D-2	Amber Glass 1 liter - unpreserved			
AW-2	180-2644-E-2	Amber Glass 1 liter - unpreserved			
AW-2	180-2644-F-2	Amber Glass 1 liter - Hydrochloric	2		
AW-2	180-2644-G-2	Amber Glass 1 liter - Hydrochloric	2		
AW-2	180-2644-H-2	Plastic 500ml - with Nitric Acid	2		
AW-2	180-2644-I-2	Plastic 500ml - unpreserved			
AW-2	180-2644-J-2	Plastic 250ml - with Sulfuric Acid	2		
AW-2	180-2644-K-2	Voa Vial 40ml - with Sodium	p		
AW-2	180-2644-L-2	Voa Vial 40ml - with Sodium	p		
AW-2	180-2644-M-2	Voa Vial 40ml - unpreserved			

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
AW-2	180-2644-N-2	Voa Vial 40ml - unpreserved			
AW-2	180-2644-O-2	Voa Vial 40ml - unpreserved			
AW-2	180-2644-P-2	Voa Vial 40ml - Hydrochloric Acid			
AW-2	180-2644-Q-2	Voa Vial 40ml - Hydrochloric Acid			
AW-2	180-2644-R-2	Voa Vial 40ml - Hydrochloric Acid			
AW-2	180-2644-S-2	Voa Vial 40ml - Hydrochloric Acid			
AW-2	180-2644-T-2	Voa Vial 40ml - Hydrochloric Acid			
AW-2	180-2644-U-2	Voa Vial 40ml - Hydrochloric Acid			